

2/8/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	
PO038946	ACI001-VC	3	1	Net 30	MT-4140QT-R3.500	AISI 4140 Quenched & Tempered Steel Round Bar 3.500" Dia.				12	2/9/2018	12		S040570	Stock	2/8/2018	\$ 50.82 / ft	0		\$609.82	
		4			MT-4140QT-R0.500	AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia.				20		12		S040571	Stock	2/8/2018	\$ 1.44 / ft	0		\$17.31	
Total:										32		24									\$498.15

Plex 2/8/2018 1:17 PM Dart, Dubois, Pascal



ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Sabarery de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 MB: 514-336-4248 Ext.: 866-456-4242

Order - Sales

Copy

CO00072723

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

1

Customer N°

CU10001056

Date

2018/02/05

Delivery date

2018/02/08

Your order N°

PO038946

Processed by

Stephanie Dignard

Salesman

Carrier

OUELLETTE VALLEYFIELD

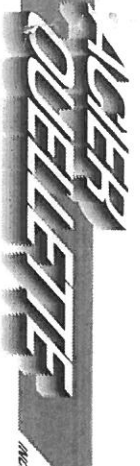
Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND 4140 HEAT TREAT 3 1/2 RANDOM R4140-312H-V 4941 <i>HEAT A173447</i> COUPE A LA SCIE SCIE 1	406.68	12.00	PL_\$CLB	0.00						
1 X 12' TRANSIT ST-JEROME 07/02/2018										
2 ROUND 4140 HEAT TREAT 1/2 RANDOM R4140-12H-V 4907	8.02	12.00	PL_\$CLB	0.00						
1 X 12' RA ST-JEROME 07/02/2018 HEAT. 190696 SURCHARGE-ENERGETIQUE FRAIS_ENERGETIQUE										
			\$	0.00						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00072723

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2018/02/05

Delivery date **2018/02/08**

Your order N° PO038946

Processed by Stephanie Dignard

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Instruction F-M

Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND 4140 HEAT TREAT 3 1/2 RANDOM R4140-312H-V 4941 COUPE A LA SCIE 1 SCIE 1 1 X 12' TRANST ST-JEROME 07/02/2018	406.68	12.00	PL_\$CLB		1 X 12'		1 X 12				DAS 11 9-09
2 ROUND 4140 HEAT TREAT 1/2 RANDOM R4140-12H-V 4907 1 X 12' R/L TRANST ST-JEROME 07/02/2018	8.02	12.00	PL_\$CLB		1 X 12 1/2"		1 X 12				DAS 11 9-09

Total Weight (Lbs) : 414.70

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time

Customer's Signature

Date

18th FEB 2018

Total (\$CAD)



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038946

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038946

PO Date: 2/5/18

Due Date: 2/9/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 05 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0083186

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M1018R0.375		1010-1025 Round Bar .375 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	2/9/18	12 ft	0 ft	12 ft	\$0.4958333/ft	\$5.95
2	MT-4140QT-R1.250		MT-4140 QT-R1.250	Firmed	2/9/18	20 ft	0 ft	20 ft	\$7.0905/ft	\$141.81
3	MT-4140QT-R3.500		AISI 4140 Quenched & Tempered Steel Round Bar 3.500" Dia.	Firmed	2/9/18	12 ft	0 ft	12 ft	\$50.818333/ft	\$609.82
4	MT-4140QT-R0.500		AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia.	Firmed	2/9/18	20 ft	0 ft	20 ft	\$1.4425/ft	\$28.85
5	MT-1144-R1.250		1144 Steel Proof Round Bar 1.250"	Firmed	2/9/18	20 ft	0 ft	20 ft	\$7.7125/ft	\$154.25
6	MT-1144-R1.375		1144 Steel Proof Round Bar 1.375"	Firmed	2/9/18	20 ft	0 ft	20 ft	\$8.6835/ft	\$173.67
7	M6061T6B0.375X01.250		6061-T6 Bar .375 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/9/18	20 ft	0 ft	20 ft	\$1.851/ft	\$37.02

FEB 08 2018

FEB 08 2018

FEB 07 2018

DAS
11
9-89

DAS
11
9-89

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	M6061T6R0.563		6061-T6 Round Bar .563 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/9/18	36 ft	0 ft	36 ft	\$1.0897222/ft	\$39.23
9	MT-4140QT-R1.500		AISI 4140 Quenched & Tempered Steel Round Bar 1.500" Dia.	Firmed	2/9/18	20 ft	0 ft	20 ft	\$9.009/ft	\$180.18
Grand Total: \$1,370.78										

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

FEB 07 2018

DAS
11
9:39

Plex 2/5/18 9:01 AM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0083186****Billed to**

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/30

Revision N°

0

Prices valid until**2018/02/06****Your Order N°****Processed by**

Stephanie Dignard

Salesman

STEPHANIE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND CR 3/16 1018 RANDOM RCR-316-V 5327 OFFER STEEL 1018 CR 1 X 12' R/L	1.13	12.00	PI_\$CLB	12.00	PI	0.12			1.44
ROUND CR 5/16 1018 RANDOM RCR-516-V 5348 OFFER STEEL 1018 CR 1 X 12' R/L	3.13	12.00	PI_\$CLB	12.00	PI	0.21			2.57
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 OFFER STEEL 1018 CR 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 20' R/L	83.44	20.00	PI_\$CLB	20.00	PI	7.09			141.81
ROUND 4140 HEAT TREAT 3 1/2 RANDOM R4140-312H-V 4941 COUPE A LA SCIE SCIE 1 1 X 12' 2-3 DAYS	406.68	12.00	PI_\$CLB	12.00	PI	50.82			609.82
		1.00	UN	1.00		5.00			5.00
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND CR 3 1018 RANDOM RCR-3-V 5338 1 X 12' COUPE A LA SCIE SCIE 1	288.36	12.00	PI_\$CLB	12.00	PI	31.71			380.49
		1.00	UN	1.00		5.00			5.00

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0083186****Billed to**

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/30

Revision N°

0

Prices valid until**2018/02/06****Your Order N°****Processed by**

Stephanie Dignard

Salesman

STEPHANIE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 ANNEALED 1/2 RANDOM R4140-12A-V 4905 1 X 20' R/L 2-3 DAYS	13.36	20.00	PI_\$CLB	20.00	PI	1.44			28.85
ROUND CR 3/8 1018 RANDOM RCR-38-V 5337 OFFER STEEL 1018 CR 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	0.50			5.95
ROUND STRESSPROOF 1 1/4 RANDOM RST-114-V 5790 1 X 20' R/L STOCK	83.40	20.00	PI_\$CLB	20.00	PI	7.71			154.25
ROUND STRESSPROOF 1 3/8 RANDOM RST-138-V 5801 1 X 20' R/L STOCK	101.00	20.00	PI_\$CLB	20.00	PI	8.68			173.67
FLAT ALU 2 X 2 1/2 6061-T6 RANDOM NS FAL-2212-V 8770 2" X 2-1/4 NOT AVAILABLE, OFFER 2" X 2-1/2 1 X 12' 3-4 DAYS	70.49	12.00	PI_\$CLB	12.00	UN_\$UN	21.56			258.66
FLAT ALU 2 1/2 X 4 1/2 6061-T6 NS FAL-212412 9283 1 X 12' 3-4 DAYS	161.76	12.00	PI_\$CLB	12.00	PI	47.71			572.55
FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 1 X 20' STOCK	11.02	20.00	PI_\$CLB	20.00	PI	1.85			37.02
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 3 X 12' STOCK	10.55	36.00	PI_\$CLB	36.00	PI	1.09			39.23
ROUND 4140 HEAT TREAT 1 1/2 RANDOM R4140-112H-V 4893 1 X 20' STOCK	120.16	20.00	PI_\$CLB	20.00	PI	9.01			180.18

Date :

Next Page...

Total (\$CAD)	2 951.94
----------------------	-----------------

Chantal Lavoie

From: Chantal Lavoie
Sent: Friday, February 02, 2018 1:49 PM
To: Chantal Lavoie
Subject: FW: quote

From: Chantal Lavoie
Sent: Monday, January 29, 2018 2:52 PM
To: 'Josianne Bourdon' <j.bourdon@acierouellette.com>
Subject: quote

Good afternoon Josianne,
Please advise price an delivery on mat'l.

~~4140 qt round bar 0.187" x 12 ft~~
4140 qt round bar 0.3125" x 12 ft
4140 qt round bar 0.375" x 12 ft ✓
~~4140 qt round bar 1.250" x 12 ft~~ ✓
~~4140 qt round bar 3.5" x 12 ft~~ ✓

~~1018 round bar 0.375" x 12 ft~~ ✓
1018 round bar 3.0125" x 12 ft ✓

4140n round bar 0.500" x 12 ft ✓
4140n round bar 0.375" x 12 ft ✓

~~1144 round bar 1.250" x 12 ft~~ ✓
~~1144 round bar 1.375" x 12 ft~~ ✓

6061-t6 bar 2" x 2.250" x 12 ft ✓
~~6061-t6 bar 2.5" x 4.5" x 12 ft~~ ✓
~~6061-t6 bar 0.375" x 1.250" 12 ft~~ ✓

~~6061-t6 round bar 0.563" x 36 ft~~ ✓

4140H round bar 1.5" x 12 ft ✓

Thanks
Chantal

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

DART

Page 01 of 02

Certification Date
25-SEP-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S697927

AC00009558
PART NUMBER/NUMÉRO DE PIÈCE
506031

SOLD TO: ACIER OUELLETTE INC
VENDU À:

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4142 CF HEAT TREATED S/R OR STRESS FREE BAR
1/2 RD X 12' R/L Line Total: 160 LB
HEAT: 190696 ITEM: 506031

Specifications:
ASTM A434 CL BC 12
ASTM A193 M15
ASTM A322 13
EN 10204 04

ASTM A193 GR B7 M
ASTM A29-A29M 15
ASTM A331 95

ASTM A108 13
ASTM A304 11
ASTM A962/A962 14

CHEMICAL ANALYSIS

C	MN	SI	P	S	CR	NI	MO
0.42	0.97	0.26	0.011	0.022	1.04	0.20	0.23
CU	AL	CA					
0.17	0.026	0.0008					

RCPT: R294209

COUNTRY OF ORIGIN : SPAIN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	110.0	145.0	17.6	58.8	269

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du fabricant après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
25-SEP-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S697927

AC00009558
PART NUMBER/NUMÉRO DE PIÈCE
506031

SOLD TO:	ACIER OUELLETTE INC	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	22 BOULEVARD J-F KENNEDY	EXPÉDIÉ À:	22 BOULEVARD J F KENNEDY
	ST JEROME QC J7Y 4B6		SAINT JEROME QC J7Y 4

Description: 4142 CF HEAT TREATED S/R OR STRESS FREE BAR
1/2 RD X 12' R/L Line Total: 160 LB

HEAT: 190696 ITEM: 506031

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
60	60	60	59	59	58	58	57	57	56	56	55	55	54	54
16	18	20	22	24	26	28	30	32						
53	52	51	49	48	47	46	45	44						

GRAIN SIZE : 7

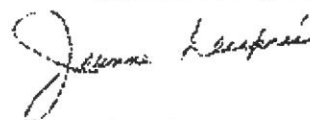
VACUUM DEGASSED MATERIAL IS FREE FROM MERCURY CONTAMINATION
EDDY CURRENT/MAGNETIC TEST PERFORMED
THERMAL TREATMENT: OK
QUENCHING 1.562 F, TIME: (1): 45MIN; COOLING: (1): OIL
TEMPERATURE MEDIA AT THE START: (1) 95 F: TEMPERATURE MEDIA
AT THE FINISH (1) 122 F
TEMPERING 1.202 F; TIME (2) 150 MIN COOLING (2) AIR
TEMPOF (3) STRESS RELIEVED 1.102 F (3) 120 MIN
MACRO: OK

COMMENTS
country of origin: spain
reduction ratio 167,8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

R4H-312



**NIAGARA
LASALLE
CORPORATION**

1412 150th Street
Hammond IN 46327-1799

CERTIFICATION

CERTIFICATE	Rev
H181784	2
DATE	09/28/17
PAGE	3

PURCHASE ORDER: B99988	
ORDER: 950752-2	
CUSTOMER ITEM: V015412	ITEM: 143500240Q04A
GRADE: QT4140	SHAPE: Round
SIZE: 3.5000	SIZE MM: 88.9000 MM
LENGTH: 20' 0" / 24' 0"	LENGTH MM: 6096 / 7315.2

4140/42 VD-CAVAL-TRT QT-HR-STRESS FREE 115K TS 95K YS (.02% S, .01% P, 16% EL, 50% R/A SURFACE HBN 289/321 SA193-85/A98 GR B7 Spec/Rev: Spec/Rev: ASTM A193/A193M-14 GR-B7 Spec/Rev: ASTM A290/A290M-15 Spec/Rev: ASTM A322-13 Spec/Rev: ASTM A434-06(2012) CL-BG

HEAT		GRAIN PRACTICE		SOURCE / MELTED			CAST		REDUCTION RATIO		DI				
A173447		FINE(5-8)		STEEL DYNAMICS (USA)			BLOOM		14.5:1		5.88				
CHEMISTRY															
C	MN	P	S	SI	NI	CR	MO	CU	AL	V					
0.410	0.540	.012	.014	0.260	0.130	1.040	.210	.280	.034	.004					
N	TE	AS	PH	SE	BI	B	NO								
.008	N/A	N/A	N/A	N/A	N/A	.0003	N/A								
MECHANICAL															
JOB	TENSILE		2% YIELD		ELONG		R OF A		HARDNESS		2% YIELD		BR TEMP		
HS48904	143,814 PSI		124,113 PSI		18.20		58.00		HBN = 302		102,335				
QUENCH & TEMPER															
JOB	MACRO		SURFACE		AUSTENITIZED			TEMPERED		STRESS					
			TEMPERATURE	TIME	QUENCH	TEMPERATURE	TIME	TEMPERATURE	TIME						
HS48904	SATISFACTORY		HBN = 302		1650F	2.4 HRS	WATER	1150F	4.5 HRS	STRESS FREE					
HARDENABILITY															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
57	57	57	57	57	57	57	57	64	50	50	48	47	48	40	
LOT															
LOT		JOB		WEIGHT (LBS)		PIECES		LOT		JOB		WEIGHT (LBS)		PIECES	
546764E		HS48904		8,570		12									

WE hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temperature during processing or while in our possession. No weld repairs performed on the above material.

CERTIFICATE OF TEST

By:

Walter P. Kretzler

Walter P. Kretzler - Director of Q.A./Chief Metallurgist

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0500

PO BATCH NO. 038946/5042571

DATE: FEB 08 2018

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>Astm A29</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat # 190696</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR E	TWEED
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if applicable)

INSPECTED BY: DAS 11
 DATE: 9-89 FEB 08 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

8 7 6 5 4 3 2 1

D C B A

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER:
MT-4140-B-(T.TTT) x (W.WWW)
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES
EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

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SUBJECT TO AMENDMENT
WITHOUT NOTICE

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML

DART AEROSPACE	
Hawkebury, Ontario, Canada	
TITLE AISI 4140 / 4142 STEEL BAR	
PART NO. MT-4140-B	REV C
TOOL NO.	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING	
DESIGNED BY: VM 12/13/2017	INITIALS AND DATE
DRAWN BY: ML 02/14/2018	TOLERANCES: XX ± .005
CHECKED BY: VM 02/14/2018	XX ± .1
MFG REVIEW BY: DD 02/14/2018	XX ± .1
APPROVED BY: ML 02/14/2018	SCALE: NTS
SHEET OF 1	
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8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT R3.500
 DATE: FEB 08 2018

PO BATCH NO: 038946/5040570

MATERIAL CERT REQ'D: YES
 QUANTITY RECEIVED: 12"
 QUANTITY INSPECTED: 12"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.500
 THICKNESS RECEIVED: 3.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>Astm A29</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat# A173447</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DURA	DUR D	WEE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS
11
 DATE: 9-89 FEB 08 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

8 7 6 5 4 3 2 1


REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626

PART NUMBER: MT-4140-B-[T.TTT] x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES
EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

**DART**
AEROSPACE

Newbury, Ontario, Canada

TITLE		AISI 4140 BAR	
PART NO.	REV	B	
MT-4140-B			
TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS ARE IN INCHES DECIMALS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING			
DESIGNED BY: VM 13/12/2017		TOLERANCES: FRACTIONS ± 1/8	
DRAWN BY: VM 01/24/2018		FINISH: XXX ± .005	
CHECKED BY: VM 01/24/2018		X ± .1	
MFG REVIEW BY: DP 01/24/2018		X ± .1	
APPROVED BY: ML 01/24/2018		X ± .1	
SCALE: NTS		SURFACES: ROUGHNESS	
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8 7 6 5 4 3 2 1